# Infill Housing Task Force

August 22, 2007

**Brookdale Model Study** 



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# Agenda

- I. Welcome
- II. Review
- II. Elements of Site Design: Lot coverage, Height, Massing, FAR
- III. Brookdale Existing Conditions
- IV. Study Models
- V. The Good in Architecture
- VI. Notable Examples
- VII. Next Steps

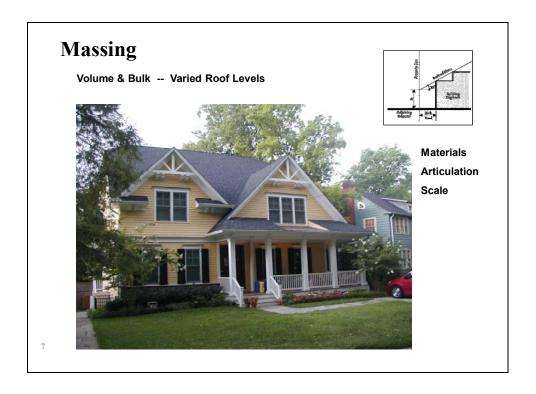


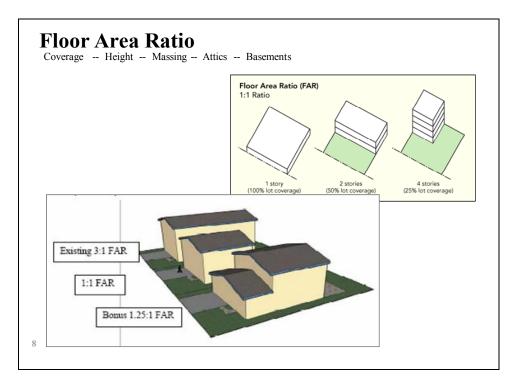
# Lot Coverage Setbacks Buildable Area Building Height Massing Floor Area Ratio



# Lot Coverage Buildable Area Setbacks Green Area Tree Save







# **Brookdale Vicinity**

Friendship Heights

**Metro Station** 

Western Ave

**Potomac River** 

Stream Buffer

Scale Change

Transportation



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# **Brookdale Vicinity**

Friendship Heights

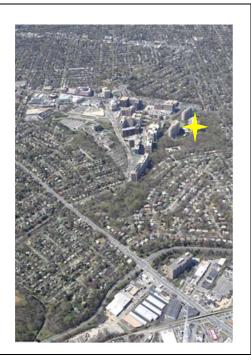
CBD-2 Zone

Commercial/ Mixed-Use Density

High Rise

Tree Save - Green Buffers

**Development Contrast** 



# **Brookdale Vicinity**

Western Avenue

**GEICO** 

**Neighborhood Streets** 

Impervious Area

Contrasts





# **Brookdale Block Study**

Older Neighborhood

R-60 Zone

Narrow Streets

Sequential

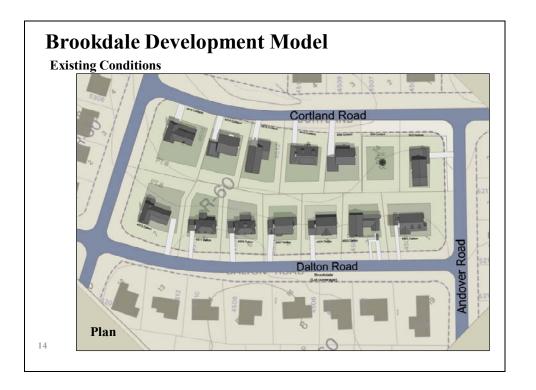
House Additions

**Unbuilt Lot** 

Varied Lot Sizes



# Brookdale Block Study Older Neighborhood R-60 Zone Narrow Streets Sequential House Additions Unbuilt Lot Varied Lot Sizes



# **Brookdale Development**



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Andrew .						
THE STATE OF	E219	7,830	1,710	1,625	23.09%	0.24
Certical						
TON	4000	6,780				
TEN	4000	- (100	1,940	1,288	21.63%	0.31
1961	4510	430	1,367	1,380	21.73%	0.21
1941	4612	4790	1910	1,426	20.97%	0.28
1981	4514		1989	1,346	19.53%	0.26
TON	4610 *	19,254		1,200	11.70%	0.16
1011	12.12					
Daller .						
1989	4891	8,383	1,000	1,510	16.08%	0.18
1989	4003	0,176	2,040	1,533	24.83%	0.48
1000	4665	0,176		1,430	23.16%	0.31
				1,234	19.98%	0.27
700	455	4,175		1,234	17.96%	0.27
700		9,437			17.90%	0.41
757	4511		1,881	1,202 1,200	11.54%	0.23
700	4613*	10,482	1,725	1,200	11.54%	0.17
		0.754	4 740	1,348	17.3 <b>1</b> %	0.30
Tree Land		8,721	1,710	1,340	17.31%	0.20

**Existing Data** 

# **Brookdale Development Model**Maximum Lot Coverage: 35%



### **Brookdale Development Model** Maximum Lot Coverage: 35% 21.63% 1,348 2,084 8,252 1,300 0.21 2,223 941 4516 1,426 0.28 2,380 4514 1,346 0.26 2,412 8,991 4514 \* 1170% 0.16 3,589 10,751 16.08% 0.48 0.31 6175 1,533 1,430 2,161 2,161 24.83% **451**5 8,175 23.16% 4507 6,175 1,234 19 98% 0.27 2,161 1,156 17.96% 0.41 2,253 1,202 1,200 0.23 0.17 4511 17:27% 2,436

**4513** °

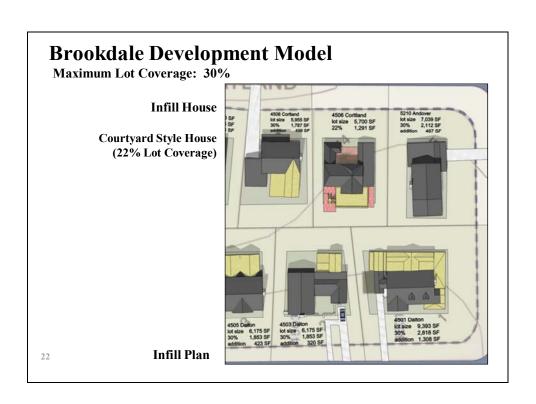
35% Data

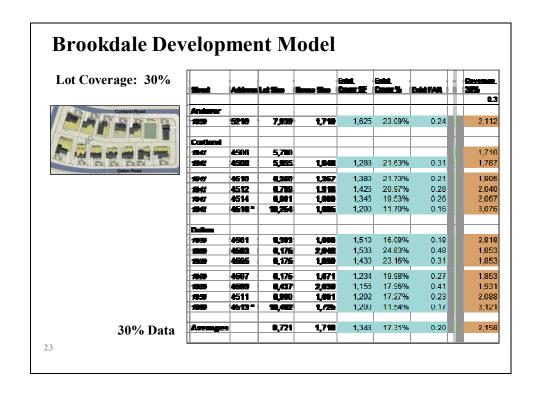
17

0,721

11.54%

3,641





Lot Coverage: 25%



Brookdale Development Model Maximum Lot Coverage: 25%

**Infill House** 

**Hampden Lane Example** (20% Lot Coverage)



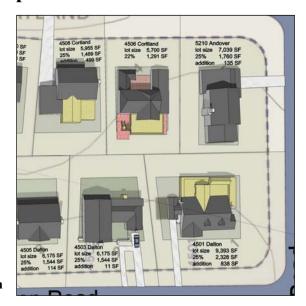


Infill Plan 25

Lot Coverage: 25%

### **Infill House**

Courtyard Style 22% Lot Coverage



Infill Plan

# **Brookdale Development Model**

Lot Coverage: 25%



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-	Anderer							
	<b>437</b>	5210 ·	7,930	1,710	1,625	23.09%	0.24	1,760
_	Continue							
	1907	4586	5,700					1,425
	<b>1947</b>	4588	5,955	1,846	1,288	21.63%	0.31	1,489
į	<b>18</b> 67	4510	6,350	1,357	1,380	21.73%	0.21	1,588
	<b>78</b> 47	4512	6,700		1,426	20.97%	0.28	1,700
:		4514	6,991	1,000	1,345	19.53%	0.26	1,723
	<b>6</b> 47	4516*	10,254	1,685	1,200	11.70%	0.16	2,564
_	Dellem							
	<b>637</b>	4581	9,393	1,000	1,510	16.08%	0.18	2,348
1	937	4583	6,175	2,948	1,533	24.83%	0.48	1,544
	763P	4585	6,175	1,000	1,430	23.16%	0.31	1,544
	1999	4587	6,175	1,671	1,234	19.98%	0.27	1,544
į	<b>63</b>	4520	6,437	2,636	1,156	17.96%	0.41	1,609
	1939	4511	0,000	1,001	1,202	17.27%	0.23	1,740
1	937	<b>4513*</b>	19,462	1,725	1,200	11.54%	0.17	2,601
_	Arennes		0,721	1,790	1,348	17.31%	0.20	1,798
				1,1	1,545	17.5170	0.20	1,130

**25% Data** 

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Lot Coverage: 20%



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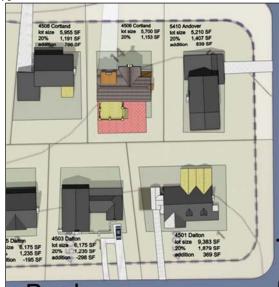
# Brookdale Development Model Maximum Lot Coverage: 20%\_\_\_\_\_

**Infill House** 

Hampden Lane Example (20% Lot Coverage)



**Infill Plan** 



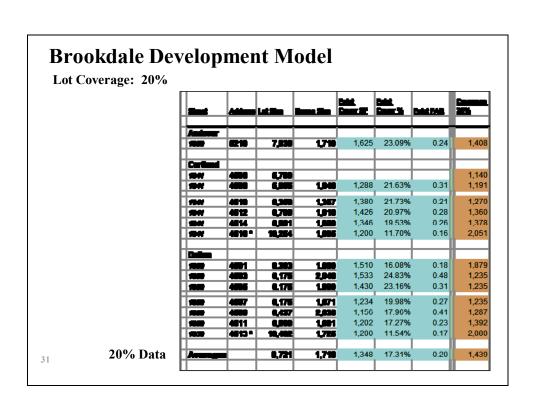
Brookdale Development Model

Lot Coverage: 20%

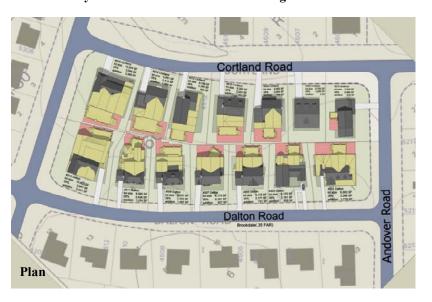
Infill House

Courtyard Style
22% Lot Coverage

4505 Dillion
14505 Dillion
14505



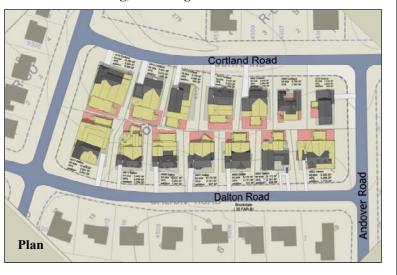
0.35 FAR One-Story with Maximum 35% Lot Coverage



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# Brookdale Development Model 0.35 FAR Two-Story with 22% Lot Coverage

Varied Massing, Roof Heights



0.40 FAR Two-Story with 20% Lot Coverage Varied Massing, Roof Heights

### **Infill House**

Hampden Lane Example (20% Lot Coverage)





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## Lessons

### Architecture

Massing Height Materials Articulation Tree Save



4118 Stanford Street, Chevy Chase
Lot Size: 6,667 SF
Lot Coverage 33%
Height 28 feet

## Lessons

### Architecture

Height Roof Design Articulation Materials Scale



4817 Leland Street, Bethesda Lot Size: 5,850 SF Lot Coverage 34.5% Height 28 feet 1-car detached garage, rear

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# Lessons

### Architecture

Massing Height Materials Lot Coverage Scale Grading



4549 Windsor Lane Lot Size: 5,280 SF Lot Coverage 34% Height 29'-5" feet 1-car garage

## Lessons

### Architecture

Massing Height Materials Lot Coverage



3401 Rolling Court, Chevy Chase Lot Size: 10,753 SF Lot Coverage 32% Height 23 feet 2-car garage, attached

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# Lessons

### Architecture

Massing Height Materials Lot Coverage Scale Grading



3602 Thornapple Street, Chevy Chase Lot Size: 6,250 SF Lot Coverage 34.5% Height 28 feet 1-car detached garage, rear

## Lessons

### Architecture

Massing Height Materials Lot Coverag Scale Grading



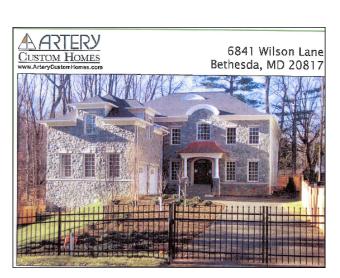
4502 West Virginia Avenue, Bethesda Lot Size: 6,667 SF Lot Coverage 33% Height 28 feet 1-car garage, attached

40

## Lessons

### Architecture

Massing Height Materials Lot Coverage Scale Grading



6841 Wilson Lane, Chevy Chase Lot Size: Lot Coverage Height 2-car garage, attached

# Questions

- 1. Lot Coverage or Floor Area Ratio
- 2. How to best influence Massing?
- 3. How to find the optimal numbers?